

DETAILED ACTION

Response to Amendment

1. Receipt of Applicant's Amendment filed 03/02/2010 is acknowledged.

EXAMINER'S AMENDMENT

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. David A. Lovell (RN 57,619) on April 15, 2010.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

1-28 (Canceled).

29. (Currently Amended) A method comprising:

for each electronic device of a plurality of electronic devices, in real time:

- ~~on the electronic device, at a transport layer, capturing substantially all digital data received by the electronic device over a network before the digital data is provided to an application layer for presentation to a user of the electronic device;~~

Art Unit: 2163

- receiving, in a backend system, transmitting information related to the captured digital data captured by the electronic device at a transport layer before the digital data is provided to an application layer for presentation to a user of the electronic device to a backend system on the network, the backend system comprising at least one server;
- delaying delivery of the digital data to the application layer on the electronic device at least until the digital data is designated non-illicit by the at least one server, the at least one server providing a content rating service that rates illicitness of digital data;
- on the at least one server, determining a digital-data rating via the information related to the captured digital data, the determining comprising:
 - checking a ratings database for a pre-existing rating for the captured digital data using a network address included in the information related to the captured digital data;
 - responsive to the network address being found in the ratings database, using the pre-existing rating as the digital-data rating;
 - responsive to the captured digital data not being found in the ratings database:
 - crawling the captured digital data via the network address;
 - accessing the captured digital data over the network;
 - performing a word-by-word analysis of the captured digital data to determine the digital-data rating; and

- updating the ratings database with the network address and the digital-data rating responsive to the performance of the word-by-word analysis;
- receiving an indication from the at least one server of whether designating the captured digital data is as illicit digital data or non-illicit digital data, the designating comprising designating the captured digital data as illicit digital data if the digital-data rating exceeds a predetermined threshold indication resulting at least in part from the content rating service; and
- transmitting a result of the designating from the at least one server to the electronic device to blocking block the illicit digital data from delivery to the application layer.

30. (Previously Presented) The method of claim 29, comprising, for each of the plurality of electronic devices, in real time, allowing delivery of the non-illicit digital data to the application layer for presentation to the user of the electronic device.

31. (Currently Amended) The method of claim 29, comprising, for each of the plurality of electronic devices, in real time, capturing substantially all requests for digital data over the network by the electronic device.

32. (Previously Presented) The method of claim 31, comprising: for each of the plurality of electronic devices, concurrently routing:

information relating to at least some of the captured requests for digital data to the at least one server providing the content-rating service; and the at least some captured requests to intended destinations on the network.

33. (Previously Presented) The method of claim 32, wherein at least some of the captured digital data is digital data received at the electronic device as a result of the step of routing the information relating to at least some of the captured requests for digital data to the intended destinations.

34. (Previously Presented) The method of claim 32, wherein at least some of the captured digital data is digital data received at the electronic device independent of the routing step.

35. (Currently Amended) The method of claim 32, comprising, on the at least one server:

crawling requested digital data on the network using the at least some of the captured requests; and

rating the requested digital data for illicitness using a word-by-word analysis of the requested digital data.

36. (Previously Presented) The method of claim 35, further comprising, responsive to the rating step, storing a rating and identification information for the

rated digital data together in a content database in communication with the at least one server.

37. (Previously Presented) The method of claim 29, comprising, for each of the plurality of electronic devices, sending an authentication signal to the backend system, the authentication signal providing validation information indicating whether the electronic device corresponds to a valid user account.

38. (Previously Presented) The method of claim 29, further comprising, for each of the plurality of electronic devices, filtering communication between the electronic device and the network for personal information.

39. (Previously Presented) The method of claim 29, further comprising, for each of the plurality of electronic devices, filtering communication between the electronic device and the network for explicit requests for illicit content.

40. (Previously Presented) The method of claim 29, wherein the electronic device comprises at least one of:

a personal computer;

a set-top box;

a router; and

a gateway.

41. (Previously Presented) The method of claim 35, further comprising transmitting configuration settings to the electronic device corresponding to the valid user account.

42. (Currently Amended) The method of claim 29, wherein at least some of the captured digital data comprises an instant message en route to an instant messaging application on the electronic device.

43. (Currently Amended) The method of claim 29, wherein at least some of the captured digital data comprises an email message en route to an email application on the electronic device.

44. (Currently Amended) The method of claim 29, further comprising, for at least one of the electronic devices, rating the captured digital data for illicitness utilizing a content-rating module on the electronic device.

45. (Previously Presented) The method of claim 29, comprising, for at least one of the plurality of electronic devices:

transmitting information related to the captured digital data to a reporting server; and

on the reporting server, logging network activities of the user of the electronic device via the information related to the captured digital data.

46. (Previously Presented) The method of claim 45, comprising: on the reporting server, for the at least one of the plurality of electronic devices:

generating a report summarizing illicitness of network activities of the user of the electronic device for a predetermined time period; and

transmitting the report over the network to a third party.

47. (Previously Presented) The method of claim 45, comprising:

wherein the at least one of the plurality of electronic devices comprises more than one electronic device;

generating a multi-user report summarizing illicitness of network activities of each user of the more than one electronic device for a predetermined time period;

and

transmitting the multi-user report over the network to a third party.

48. (Currently Amended) The method of claim 29, comprising, for at least one of the plurality of electronic devices:

~~delaying delivery of the digital data to the application layer on the electronic device at least until the digital data is designated non-malicious by the backend system;~~

~~receiving transmitting an indication from the backend system to the at least one of the plurality of electronic devices on whether the captured digital data is malicious or non-malicious; and~~

blocking the captured digital data deemed to be malicious.

49. (Currently Amended) The method of claim 31, comprising, for at least one of the plurality of electronic devices:

~~receiving~~ transmitting an indication from the backend system that at least one of the captured requests for digital data represents an unauthorized intrusion on the electronic device; and

denying the at least one of the captured requests for digital data.

50. (Canceled)

51. (Currently Amended) A method comprising:

for each electronic device of a plurality of electronic devices, in real time:

- on the electronic device, at a transport layer, capturing ~~substantially~~ all digital data received by the electronic device over a network before the digital data is provided to an application layer for presentation to a user of the electronic device;
- routing information related to the digital data to a backend system on the network, the backend system comprising at least one server, the at least one server providing a content-rating service for rating digital-data illicitness;
- delaying delivery of the digital data to the application layer on the electronic device at least until the digital data is designated non-illicit by the at least one server;

- on the at least one server, determining a digital-data rating via the information related to the digital data, the determining comprising:
 - checking a ratings database for a pre-existing rating for the digital data using ~~an~~ a network address included in the information related to the digital data;
 - responsive to the network address being found in the ratings database, using the pre-existing rating as the digital-data rating;
 - responsive to the digital data not being found in the ratings database:
 - crawling the digital data via the network address;
 - accessing the digital data over the network;
 - performing a word-by-word analysis of the digital data to determine the digital-data rating; and
 - updating the ratings database with the network address and the digital-data rating responsive to the performance of the word-by-word analysis;
- designating the digital data as illicit digital data or non-illicit digital data, the designating comprising designating the digital data as illicit digital data if the digital-data rating exceeds a predetermined threshold;
- on the electronic device, receiving a result of the ~~designation~~ designating from the at least one server; and
- on the electronic device, blocking the illicit digital data from delivery to the application layer.

52. (New) An article of manufacture, the article of manufacture comprising:
- at least one computer-readable medium;
- processor instructions contained on the at least one computer readable medium, the processor instructions configured to read from the at least one computer-readable medium by at least one processor and thereby cause the at least one processor to operate to, for each of a plurality of electronic devices in real time:
- receive, in a backend system, information related to digital data captured by the electronic device at a transport layer before the digital data is provided to an application layer for presentation to a user of the electronic device, the backend system comprising at least one server;
 - on the at least one server, determine a digital-data rating via the information related to the captured digital data, the determining comprising:
 - check a ratings database for a pre-existing rating for the captured digital data using a network address included in the information related to the captured digital data;
 - responsive to the network address being found in the ratings database, use the pre-existing rating as the digital-data rating;
 - responsive to the captured digital data not being found in the ratings database:
 - crawl the captured digital data via the network address;
 - access the captured digital data over the network;

- perform a word-by-word analysis of the captured digital data to determine the digital-data rating; and
- update the ratings database with the network address and the digital-data rating responsive to the performance of the word-by-word analysis;
- designate the captured digital data as illicit digital data or non-illicit digital data, the designating comprising designating the captured digital data as illicit digital data if the digital-data rating exceeds a predetermined threshold; and
- transmit a result of the designating from the at least one server to the electronic device to block the illicit digital data from delivery to the application layer.

Allowable Subject Matter

3. Claims 29-49 and 51-52 are allowed and are renumbered as 1-23.

The following is an examiner's statement of reasons for allowance: Claims 29-49 and 51-52 are allowable because the prior art made of record does not teach or fairly suggest the combination of elements as recited in independent Claims 29, 51 and 52.

Specifically, the prior art of record does not teach:

- responsive to the captured digital data not being found in the ratings database: crawling the captured digital data via the network address; accessing the captured digital data over the network; performing a word-by-word analysis of

the captured digital data to determine the digital-data rating; and updating the ratings database with the network address and the digital-data rating responsive to the performance of the word-by-word analysis taken with all other limitations as recited in Claim 29.

- responsive to the digital data not being found in the ratings database: crawling the digital data via the network address; accessing the digital data over the network; performing a word-by-word analysis of the digital data to determine the digital-data rating; and updating the ratings database with the network address and the digital-data rating responsive to the performance of the word-by-word analysis taken with all other limitations as recited in Claim 51.
- responsive to the captured digital data not being found in the ratings database: crawl the captured digital data via the network address; access the captured digital data over the network; perform a word-by-word analysis of the captured digital data to determine the digital-data rating; and update the ratings database with the network address and the digital-data rating responsive to the performance of the word-by-word analysis taken with all other limitations as recited in Claim 52.

The dependent claims being definite, further limiting and fully enabled by the Specification are also allowed.

These features, together with the other limitations of the independent claim are novel and non-obvious over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Remarks

4. Claim 52 recites "a computer readable medium" that the Office considers the term "medium" as excluding carrier wave, signal, transmission media, or any form of energy, such that the claim clearly falls within a statutory class of invention as required under the terms of 35 U.S.C. 101.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THANH-HA DANG whose telephone number is (571)272-4033. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thanh-Ha Dang
Examiner, AU 2163
April 23, 2010

/don wong/
Supervisory Patent Examiner, Art Unit 2163